10/099,738

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Term: L11 and primer$1

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L13	L12 and detectable probe$1	2	L13
L12	L11 and primer$1	22	L12
L11	L10 and kit$1	24	L11
L10	L9 and polynucleotide$1	33	L10
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L7	L6 and self quench$3	4	L7
L6	L5 and control	9	L6
L5	L4 and kit$1	14	L5
L4	livak.in.	67	L4
L3	L2 and external control	2	L3
L2	heid.in.	354	L2
L1	external control near5 polynucleotide$1	3	L1

END OF SEARCH HISTORY

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L12: Entry 11 of 22 File: USPT May 9, 2000

US-PAT-NO: 6060456
DOCUMENT-IDENTIFIER: US 6060456 A

TITLE: Chimeric oligonucleoside compounds

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold, Jr.; Lyle J.	Poway	CA		
Reynolds; Mark A.	San Diego	CA		
Giachetti; Cristina	Solano Beach	CA		
Lebedev; Alexandre V.	San Diego	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Genta Incorporated	Lexington	MA			02

APPL-NO: 08/ 960111 [PALM]
DATE FILED: October 27, 1997

PARENT-CASE:
This application is a continuation of application(s) Ser. No. 08/481,637 filed on Jun. 7, 1995 now abandoned, which is a continuation of Ser. No. 08/238,177 filed on May 4, 1994 now abandoned, which is a continuation of Ser. No. 08/233,778 filed on Apr. 26, 1994 now abandoned, which is a continuation of Ser. No. 08/154,013 filed on Nov. 16, 1993 now abandoned which is a continuation of Ser. No. 08/154,014 filed Nov. 16, 1993, now abandoned.

INT-CL: [07] C12 Q 1/68, A01 N 43/04, C07 H 19/00, C07 H 21/00

US-CL-ISSUED: 514/44; 435/6, 435/91.1, 514/1, 536/22.1, 536/23.1, 536/25.3, 536/24.1, 536/24.2, 536/24.3, 536/24.32, 536/24.31, 536/24.33
US-CL-CURRENT: 514/44; 435/6, 435/91.1, 514/1, 536/22.1, 536/23.1, 536/24.1, 536/24.2, 536/24.3, 536/24.31, 536/24.32, 536/24.33, 536/25.3

FIELD-OF-SEARCH: 435/6, 435/91.1, 514/44.1, 536/22.1, 536/23.1, 536/25.3, 536/24.1, 536/24.2, 536/24.3, 536/24.31, 536/24.32, 536/24.33

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected | Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5212295	May 1993	Cook	536/26.7
☐	5220007	June 1993	Pederson et al.	536/23.1
☐	5470967	November 1995	Huie et al.	536/24.3

OTHER PUBLICATIONS

Bower et al. "Oligodeoxyribonucleoside methylphosphonates. NMR and UV spectroscopic studies of Rp--Rp and Sp--Sp methylphosphonate (Me) modified duplexes of {d[GGAATCC]}.sub.2 "Nucleic Acids Research, vol. 15, pp. 4915-4930, 1987.
Akhtar et al. "Stability of antisense DNA oligodeoxinucleotide analogs in cellular extracts and sera" Life Science, vol. 49, pp. 1793-1801, 1991.

ART-UNIT: 165

PRIMARY-EXAMINER: Riley; Jezia

ABSTRACT:

Chimeric oligonucleoside compounds, and methods of preparing and formulating the same, are disclosed. The compounds and compositions are useful in activating RNaseH-mediated cleavage of target ribonucleic acid sequences, and in treating disease conditions relating to such sequences.

38 Claims, 15 Drawing figures

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Search Results - Record(s) 11 through 20 of 22 returned.

☐ 11. 6060456 . 27 Oct 97; 09 May 00. Chimeric oligonucleoside compounds. Arnold, Jr.; Lyle J., et al. 514/44; 435/6 435/91.1 514/1 536/22.1 536/23.1 536/24.1 536/24.2 536/24.3 536/24.31 536/24.32 536/24.33 536/25.3. C12Q001/68 A01N043/04 C07H019/00 C07H021/00.

☐ 12. 6037523 . 23 Jun 97; 14 Mar 00. Male tissue-preferred regulatory region and method of using same. Albertsen; Marc C., et al. 800/287; 435/419 536/23.6 536/24.1 800/268 800/271 800/274 800/298 800/303. C12N015/00 C12N005/00 A01H001/06 A01H004/00.

☑ 13. 5945283 . 17 Dec 96; 31 Aug 99. Methods and kits for nucleic acid analysis using fluorescence resonance energy transfer. Kwok; Pui-Yan, et al. 435/6; 436/501. C12Q001/68.

☐ 14. 5925517 . 12 May 95; 20 Jul 99. Detectably labeled dual conformation oligonucleotide probes, assays and kits. Tyagi; Sanjay, et al. 435/6; 536/22.1 536/24.3. C12Q001/68 C07H021/02 C07H021/04.

☐ 15. 5922564 . 24 Feb 97; 13 Jul 99. Phosphate-deficiency inducible promoter. Lefebvre; Daniel D., et al. 435/69.1; 435/29 435/320.1 435/34 435/410 435/440 536/23.1 536/23.6 536/24.1 800/260 800/277. C12P021/02 C07H021/04 C12N005/04 C12N015/82.

☐ 16. 5856459 . 06 Jun 95; 05 Jan 99. Oligonucleotides specific for hepatitis B virus. Frank; Bruce L., et al. 536/24.5;. C07H021/00.

☐ 17. 5770430 . 11 Jun 96; 23 Jun 98. Cellular injury response element and uses thereof. Howell; Stephen B., et al. 435/325; 435/320.1 435/348 435/366 536/23.1 536/24.1. C12N005/00 C12N015/63 C07H021/04.

☐ 18. 5608143 . 25 Jul 94; 04 Mar 97. External regulation of gene expression. Hershey; Howard P., et al. 800/298; 435/320.1 536/24.1 800/300 800/302 800/306 800/317.3 800/320 800/320.1 800/320.2 800/323.1 800/323.2. A01H004/00 C12N015/82 C12N015/11.

☐ 19. 5580722 . 07 Feb 92; 03 Dec 96. Methods of determining chemicals that modulate transcriptionally expression of genes associated with cardiovascular disease. Foulkes; J. Gordon, et al. 435/6; 435/91.1 435/91.2. C12P019/34 C12Q001/68.

☐ 20. 5541098 . 28 Sep 94; 30 Jul 96. Urate oxidase activity protein, recombinant gene coding therefor, expression vector, micro-organisms and transformed cells. Caput; Daniel, et al. 435/191; 435/252.33 435/254.21 435/320.1 435/365 536/23.2. C12N009/06 C12N015/53.

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FILE 'CAPLUS' ENTERED AT 12:13:38 ON 01 NOV 2002
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=> s external control (10a)polynucleotide#
L1            3 EXTERNAL CONTROL (10A) POLYNUCLEOTIDE#

=> s l1 and kit#
L2            2 L1 AND KIT#

=> d l2 bib ab 1-2

L2   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN   2002:158033  CAPLUS
DN   136:195292
TI   Use of added external control sequences to verify amplification of a
     target sequence in PCR
IN   Heid, Christian; Livak, Kenneth J.
PA   PE Corporation (NY), USA
SO   PCT Int. Appl., 44 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
     ---------------    ----  --------       ---------------  --------
PI   WO 2002016648      A2    20020228       WO 2001-US26499  20010823
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
            PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 6358679         B1    20020319       US 2000-645959   20000824
     AU 2001085267      A5    20020304       AU 2001-85267    20010823
PRAI US 2000-645959     A     20000824
     WO 2001-US26499    W     20010823
AB   A method of verifying that PCR using a particular set of primers has been
     successful is described.  The method uses a single-stranded control
     sequence that is distinct from the sequence of interest but that is
     amplified by the same set of primers as the control sequence.  Probes with
     detectable labels and sequences specific for target and external
     control polynucleotides allow for detection and
     measurement.  The amplification products are detected by nucleic acid
     hybridization using probes labeled with FRET pairs of dyes.  The primers
     and the probe hybridize adjacent or substantially adjacent to one another
     on the sequences.  A kit of PCR reagents can be dispensed into
     vessels for rapid and accurate nucleic acid amplification assay, with
     real-time or end-point measurements.  The amplification control reagents,
     kits, and methods of the present invention provide pos. and neg.
     control tests which can be conducted concurrently with target
     amplification.  Allelic differences at genetic loci can be detected,
     including single nucleotide polymorphisms (SNP).

L2   ANSWER 2 OF 2  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN   2002:240316  BIOSIS
DN   PREV200200240316
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TI Methods for external controls for nucleic acid amplification.
AU Heid, Christian A. (1); Livak, Kenneth J.
CS (1) San Mateo, CA USA
ASSIGNEE: PE Corporation (NY)
PI US 6358679 March 19, 2002
SO Official Gazette of the United States Patent and Trademark Office Patents, (Mar. 19, 2002) Vol. 1256, No. 3, pp. No Pagination.
http://www.uspto.gov/web/menu/patdata.html. e-file.
ISSN: 0098-1133.
DT Patent
LA English
AB Methods of nucleic acid amplification with external controls are provided that verify the absence or presence of specific target sequences, and correct primers and probes. A single-stranded, **external control polynucleotide** is amplified with primers of the same sequence as target primers. Probes with detectable labels and sequences specific for target and **external control polynucleotides** allow for detection and measurement. The primers and the detectable probe are adjacent or substantially adjacent when hybridized to the **external control polynucleotide**. Target and control amplicons may be detected by increased fluorescence induced by polymerase-mediated 5' nuclease cleavage or hybridization of a self-quenching probe complementary to both target and **external control polynucleotides**. A **kit** of PCR reagents can be dispensed into vessels for rapid and accurate nucleic acid amplification assay, with real-time or end-point measurements. The amplification control reagents, **kits**, and methods of the present invention provide positive and negative control tests which can be conducted concurrently with target amplification. Allelic differences at genetic loci can be detected, including single nucleotide polymorphisms (SNP).